

(54) RING-FORM FLUORESCENT LAMP

(11) 4-262360 (A) (43) 17.9.1992 (19) JP

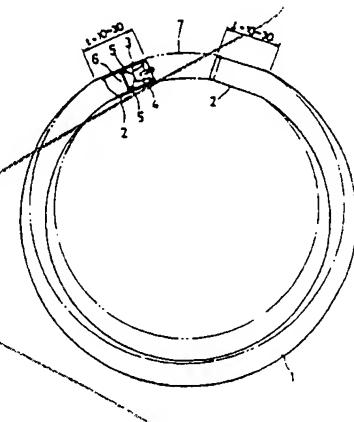
(21) Appl. No. 3-44056 (22) 18.2.1991

(71) TOSHIBA LIGHTING & TECHNOL CORP (72) KOJU YASUDA

(51) Int. Cl. H01J61/32

PURPOSE: To provide a ring-form fluorescent lamp, with which the mount is free from risk of being mounted inclined to the bulb axis and with which the same type lamp base can be mounted even to a bulb having a different curvature.

CONSTITUTION: An electrode 6 is mounted sealedly at each end of a bulb 1, which is bent into a ring to construct a ring-form fluorescent lamp. Therein the two bulb ends are formed straight, which prevents a filament fitted sealedly at these ends from being located in eccentricity from the bulb axis. Also a common lamp base can be used because of unchanged curvature of the bulb ends even with changing dia. of the bulb ring, which should enhance the accuracy in fitting of the lamp base.



(54) RAPID STARTING FLUORESCENT LAMP AND ITS MANUFACTURE

(11) 4-262363 (A) (43) 17.9.1992 (19) JP

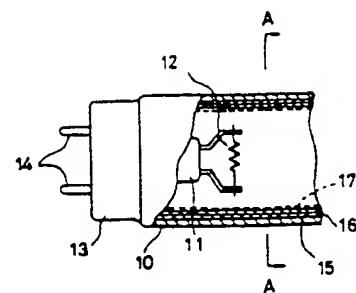
(21) Appl. No. 3-42232 (22) 15.2.1991

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(51) Int. Cl. H01J61/54, H01J9/20, H01J61/35

PURPOSE: To heighten the withstand voltage, prevent dielectric breakage of a fluorescent substance film, and preclude generation of dotted blackening.

CONSTITUTION: A transparent electroconductive film 15 is formed over the inner surface of a bulb 10, and a fluorescent substance film 17 is formed on the inner surface of this electroconductive film. Thus a fluorescent lamp of rapid start type is constructed, wherein an insulative protection film 16 consisting of a continuous film of metal oxide is formed between the fluorescent substance film and electroconductive film. According to this process, the insulative protection film can be produced with high density to cause heightening of the withstand voltage.



11: stem, 12: electrode, 17: fluorescent substance

(54) LAMP FOR PANEL

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(51) Int. Cl. H01K1/46, H05K1/18, H05K7/12

PURPOSE: To provide a lamp for panel, which can be mounted only by inserting in a mounting hole in a printed circuit board.

CONSTITUTION: An electric bulb 2 is mounted in a socket body 1 made of a non-conductive material, and the socket part 3 of a socket body 1 is fitted in a mounting hole 11 in a printed circuit board 7, and how the lead fixation part 5a of the electric bulb 2 touches the contact of the print wiring to generate the live state. The socket part 3 is equipped at its side with at least a pair of idling detent pieces 8, 8. Each of these detent pieces 8 has a coupling part 9, which is to energize the detent pieces 8 so as to widen with the resilience while one end is coupled with that end of the socket part 3 situated on the electric bulb 2 side, and a slope 10 inclining a certain angle to the axis of the socket body 1 so that the end face of the free end faces outward. When the socket part 3 is inserted in the mounting hole 11 in the printed circuit board 7, the detent pieces 8, 8 are closed, and the external ends 10a, 10a of the slopes 10, 10 pass, and after passage through the mounting hole the slopes 10, 10 are detained with the opening edge 11c to provide hindrance for slipping off.

